

Rec'd PM/PTO 08 MAR 2005

International application No.
PCT/JP03/11403

TA CLAS	COLD CAMPAN COLOR		
A. CLAS	SSIFICATION OF SUBJECT MATTER .Cl ⁷ B41M5/40		
	to International Patent Classification (IPC) or to both	national classification and IPC	
	OS SEARCHED		
Int	documentation searched (classification system followe . Cl ⁷ B41M5/26-40		
UITS	ation searched other than minimum documentation to to suyo Shinan Koho 1922–1996 i Jitsuyo Shinan Koho 1971–2003	Toroku Jitsuwo Shinan Koh	0 1994–2003
Electronic	data base consulted during the international search (na		
		me of data base and, where practicable, sea	ren terms usea)
	MENTS CONSIDERED TO BE RELEVANT	-	
Category*	Citation of document, with indication, where a		Relevant to claim No.
X Y	US 5593938 A (Fuji Photo Fil 14 January, 1997 (14.01.97), Column 7, lines 23 to 48; co column 15, line 20; column 1 & JP 7-314898 A	lumn 13, line 24 to	1,2,18,19 3-17
X Y	JP 10-193796 A (Ricoh Co., 28 July, 1998 (28.07.98), Par. Nos. [0013] to [0015], [0050] to [0051] (Family: none)		1,2,18,19 3-17
Y A	EP 1208995 A2 (Ricoh co., Lt 29 May, 2002 (29.05.02), Claim 18; Par. Nos. [0064], & JP 2002-219872 A		1,2,18,19 3-17
l i			
	er documents are listed in the continuation of Box C.	See patent family annex.	
"E" docume consider date "L" docume cited to special docume means "P" docume than the Date of the accordance of the acco	categories of cited documents: ant defining the general state of the art which is not red to be of particular relevance document but published on or after the international filing ant which may throw doubts on priority claim(s) or which is establish the publication date of another citation or other reason (as specified) ant referring to an oral disclosure, use, exhibition or other ant published prior to the international filing date but later epriority date claimed ctual completion of the international search eccember, 2003 (05.12.03)	"T" later document published after the inter priority date and not in conflict with the understand the principle or theory under document of particular relevance; the cl considered novel or cannot be considere step when the document is taken alone document of particular relevance; the cl considered to involve an inventive step combined with one or more other such combination being obvious to a person document member of the same patent fa Date of mailing of the international searc 24 December, 2003 (2)	e application but cited to rlying the invention laimed invention cannot be ed to involve an inventive laimed invention cannot be when the document is documents, such skilled in the art amily
Japar	ailing address of the ISA/ nese Patent Office	Authorized officer	
Facsimile No		Telephone No.	i





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C (Continua	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	JP 9-193551 A (Ricoh co., Ltd.), 29 July, 1997 (29.07.97), Claim 6; Par. Nos. [0013], [0035] to [0038], [0054], [0055] (Family: none)	1,2,18,19 3-17
Y A	US 5883042 A (Agfa-Gevaert), 16 March, 1999 (16.03.99), Column 2, line 29 to column 3, line 20; column 4, lines 42 to 62; column 5, lines 58 to 63; column 19, lines 43 to 63; column 22, table 2 & JP 10-95170 A Par. Nos. [0011], [0116], [0127]	1,2,3,18,19 4-17
P, X P, Y	JP 2002-331752 A (Fuji Photo Film Co., Ltd.), 19 November, 2002 (19.11.02), Par. No. [0122] (Family: none)	1,2,3,18,19 4-17
P,X P,Y	JP 2002-331753 A (Fuji Photo Film Co., Ltd.), 19 November, 2002 (19.11.02), Par. No. [0121] (Family: none)	1,2,3,18,19 4-17
E,X . E,Y	JP 2003-266943 A (Fuji Photo Film Co., Ltd.), 25 September, 2003 (25.09.03), Par. Nos. [0100] to [0105] (Family: none)	1,2,3,18,19 4-17
E,X E,Y	JP 2003-276329 A (Fuji Photo Film Co., Ltd.), 30 September, 2003 (30.09.03), Par. Nos. [0149] to [0152] (Family: none)	1,2,3,18,19 4-17
Y	US 5919729 A (Ricoh Co., Ltd.), 06 July, 1999 (06.07.99), Full text & JP 9-263049 A	3-5
Y	US 5409881 A (Ricoh Co., Ltd.), 25 April, 1995 (25.04.95), Full text & JP 5-318926 A	3-5
Y	<pre>JP 6-32056 A (Ricoh Co., Ltd.), 08 February, 1994 (08.02.94), Full text (Family: none)</pre>	3-5
Y	JP 9-220857 A (Ricoh Co., Ltd.), 26 August, 1997 (26.08.97), Full text (Family: none)	3-5





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	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	JP 7-290822 A (Oji Paper Co., Ltd.), 07 November, 1995 (07.11.95), Par. Nos. [0028], [0034]; full text (Family: none)	5-8
Y	JP 9-226252 A (Oji Paper Co., Ltd.), 02 September, 1997 (02.09.97), Claim 1; Par. No. [0012] (Family: none)	6-8
Y	JP 10-157299 A (Fuji Photo Film Co., Ltd.), 16 June, 1998 (16.06.98), Claim 3; Par. Nos. [0090], [0091] (Family: none)	9-13
Y	JP 11-115311 A (Oji Paper Co., Ltd.), 27 April, 1999 (27.04.99), Par. Nos. [0024], [0026], [0043], [0044] (Family: none)	6,9-13
Y	JP 11-70735 A (Fuji Photo Film Co., Ltd.), 16 March, 1999 (16.03.99), Claims 1, 2 (Family: none)	9-13,16
P,A	<pre>JP 2002-301868 A (Oji Paper Co., Ltd.), 15 October, 2002 (15.10.02), Full text (Family: none)</pre>	6,9-13
Y	<pre>JP 2000-6520 A (Oji Paper Co., Ltd.), 11 January, 2000 (11.01.00), Full text (Family: none)</pre>	14-17
A	JP 9-175019 A (Oji Paper Co., Ltd.), 08 July, 1997 (08.07.97), Full text (Family: none)	1-13
P,A	<pre>JP 2003-127543 A (Oji Paper Co., Ltd.), 08 May, 2003 (08.05.03), Full text (Family: none)</pre>	1-13
P,A	<pre>JP 2002-326456 A (Oji Paper Co., Ltd.), 12 November, 2002 (12.11.02), Full text (Family: none)</pre>	1-13





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This inte	
• —	mational search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.:
	because they relate to subject matter not required to be searched by this Authority, namely:
2	Claims Nos.:
	because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
	·
3.	Claims Nos.:
_	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
D IT	
	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This inte	rnational Searching Authority found multiple inventions in this international application, as follows:
	(see extra sheet)
	•
1. 🔀	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable
1. X	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
1. X 2.	
1. X 2	claims.
1. 🔀	claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
1. X 2 3	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers
1. X 2 3	claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
1. X 2 3	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers
1. X 2. 3.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers
1. X 2. 3.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers
1. X 2. 3.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers
1. X 2. 3. 4.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers
1. X 2 3	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
1. X 2 3	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: No required additional search fees were timely paid by the applicant. Consequently, this international search report is
1. X 2 3	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: No required additional search fees were timely paid by the applicant. Consequently, this international search report is
4.	claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
4.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: on Protest The additional search fees were accompanied by the applicant's protest.
4.	claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.: No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

INTERNATIONAL SEARCH REPORT



International application No.

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Continuation of Box No. II of continuation of first sheet(1)

The matter common to claims 1 to 19 is, as is described in claim 1, "A thermal recording material, which comprises (a) a transparent film, (b) a thermal recording layer which is formed on one surface of said transparent film and comprises an electron donating compound, an electron accepting compound and an adhesive, (c) a protective layer which is formed on said thermal recording layer and comprises an aqueous resin defined in the specification as a primary component, and (d) a backing layer which is formed on the other surface of said transparent film and comprises a pigment and an adhesive, wherein the backing layer contains spherical resin particles having a volume average particle diameter of 2 to 15 µm in an amount of 0.2 to 5.0 mass % relative to the backing layer". A search has revealed that this common matter (the thermal recording material according to claim 1) is not novel, because it is described in documents US 5593983 A (Fuji Photo Co., Ltd) 14 January, 1997 (14.01.97) and JP 10-193796 A (Ricoh Co., Ltd.) 28 July, 1998 (28.04.98).

This common matter 1 is not a special technical feature in the meaning of PCT Rule 13. 2, the second sentence.

Therefore, there is no matter being common to all the claims.

Since there is no other matter which is common to all the claims and is considered to be a special technical feature in the meaning of PCT Rule 13. 2, the second sentence, there is no special technical feature in the meaning of PCT Rule 13. 2, the second sentence, among those different inventions. Therefore, the technical linkage in the meaning of PCT Rule 13. 1 cannot be found among those different inventions.

Accordingly, claims 2 to 19 describe the following seven inventions: 1. claim 2; the thermal recording material according to claim 1, wherein said backing layer has a specified average thickness,

2. claims 3 to 5; the thermal recording material according to claim 1, wherein said backing layer contains a specified adhesive,

3. claims 6 to 8; the thermal recording material according to claim 1, wherein said preventive layer contains a specified adhesive,

4. claims 9 to 13; the thermal recording material according to claim 1, wherein said preventive layer contains a specified type of lubricating agent or the like,

5. claims 14 to 17; the thermal recording material according to claim 1, wherein said thermal recording layer contains a specified type of adhesive or the like,

6. claim 18; the thermal recording material according to claim 1, wherein said transparent film has a specified range of thickness, and 7. claim 19; the thermal recording material according to claim 1,

said material has a limited range of haze.

The international search was carried out for the inventions 1 and 2 firstly described, and a partial search report for claims 18 and 19 was also prepared

before the request of an additional fee, since the additional search could be done with a little additional burden.

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